

#### ABSTRACT OF THE DISCLOSURE

In a nozzle hole image recognition method for picturing a nozzle hole of a liquid droplet ejection head which is filled with a function liquid and then performing image recognition thereof, the nozzle hole is pictured synchronously with application, to the liquid droplet ejection head, of a driving waveform which causes single-period micromotion of a meniscus surface of the nozzle hole. Thus, it is possible to provide: the nozzle hole image recognition method in which the image of the nozzle hole is recognized at a good accuracy in a state in which the liquid droplet ejection head is filled with the function liquid and a position correction method of a liquid droplet ejection head using it; a nozzle hole inspection method; a nozzle hole image recognition apparatus; and a liquid droplet ejection apparatus equipped therewith.